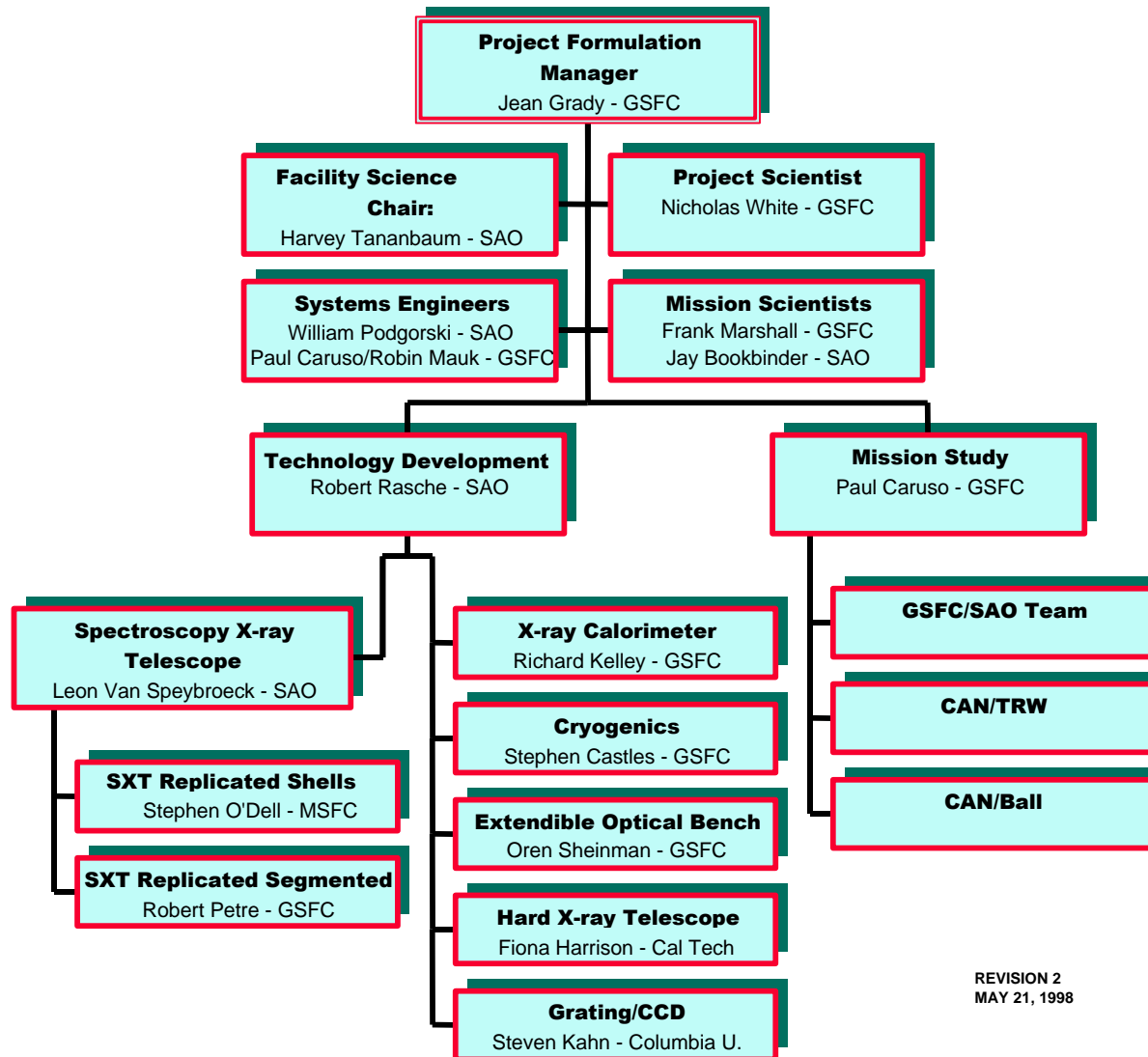


Program Status and Progress Since February FST Meeting

- Project Status Overview Jean Grady
- Technology Development Bob Rasche
- Mission Architecture Studies
 - Introduction/Requirements Paul Caruso
 - GSFC/SAO Configuration Update Oren Sheinman
- CAN Summary Presentations Ball/TRW

-
- Technology NRA evaluations and selections complete, development underway
 - Mission Concept Development gaining momentum with GSFC/SAO efforts and Industry CANs
 - Project formulation organization in place
 - Annual “State of the Universe” report to Code S Associate Administrator in May 1998
 - Requirements documentation process in place

Constellation-X Organization



REVISION 2
MAY 21, 1998

NRA process utilized to select Microcalorimeter, Grating/CCD and Hard X-ray Telescope technology development

- Scope
 - Multi-year effort to develop technologies to prototype level (Technology Readiness Level 6)
 - Contracts structured into basic contract plus options to allow budget flexibility
- Status
 - Seven (7) proposals selected by independent review panel in April 1998
 - Contracts awarded to 5 of 7 selected PI institutions in June 1998
 - Kick-off meeting at GSFC between technology PI's and project team in June 1998

Technology Development NRA Selections

Technology

PI

Lead Institution

Microcalorimeters

| | | |
|------------------------------------|-----------------------|--|
| - Comprehensive Microcalorimeters | Dr. Richard L. Kelley | NASA/Goddard Space Flight Center |
| - Multilayer Absorbers and Sensors | Dr. Simon E. Labov | Lawrence Livermore National Laboratory |
| - Tungsten TES Microcalorimeters | Dr. Blas Cabrera | Stanford University |

Hard X-ray Telescope

| | | |
|---------------------------|-----------------------|------------------------------------|
| - Comprehensive HXT | Dr. Fiona A. Harrison | California Institute of Technology |
| - Hard X-ray Optics | Dr. Melville P. Ulmer | Northwestern University |
| - Silicon Strip Detectors | Dr. W. Neil Johnson | Naval Research Laboratory |

Grating/CCD

| | | |
|-----------------------------|--------------------|---------------------|
| - Comprehensive Grating/CCD | Dr. Steven M. Kahn | Columbia University |
|-----------------------------|--------------------|---------------------|

-
- Activities to support upcoming decadal review and 1999 "State of the Universe" report
 - Update technology roadmap to incorporate selected NRA technologies and reflect current plans
 - Perform independent estimates of mission cost
 - Complete science booklet for distribution at January AAS
 - NRA Technology Development
 - Complete NRA contract awards and augmentations to the basic contracts
 - Hold first round of semi-annual technology progress reviews
 - Exercise contract options 1 beginning in January 1999

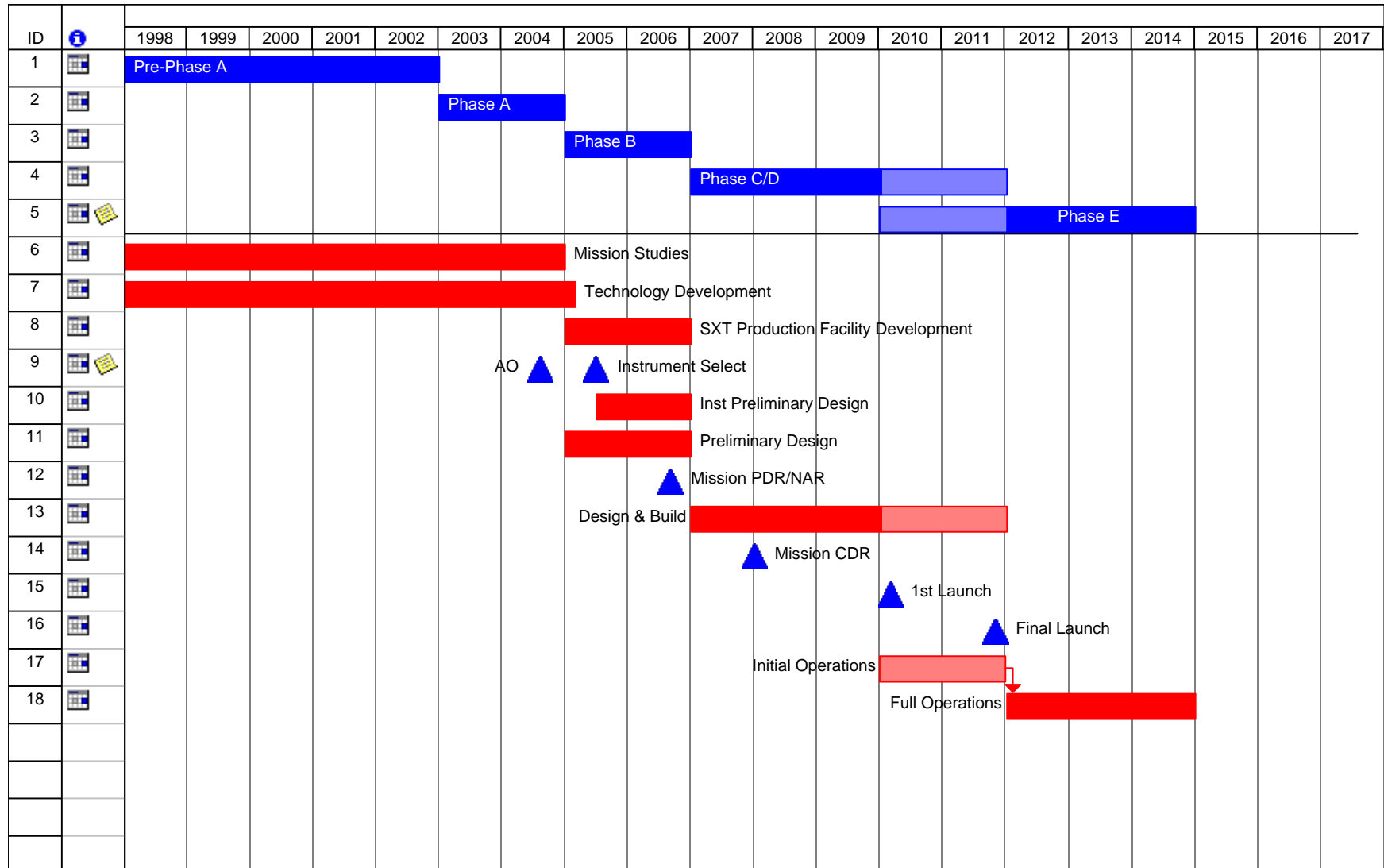
Near Term Plans (continued)

- Mission Concept Development
 - Generate solicitation and award follow-on to industry CANs
 - Continue GSFC/SAO concept definition
 - Continue to define and refine mission requirements flow down
- Anticipate mission introduction and status briefing to new AA

-
- Constellation-X technology development budget in operating plan for FY99 thru FY03
 - Current guidelines fall short of budget required to meet FY04 Approval (New Start)
 - Overguide requested to maintain technology driven schedule
 - Entering into FY99 without promise of any overguide funds
 - Technology development effort planned for the next year would stretch over two years
 - Liens list generated to identify high priority technology “add-backs”

Schedule with In-guide Budget

Jean Grady
FST Meeting
September 24, 1998



Schedule with Over-guide

